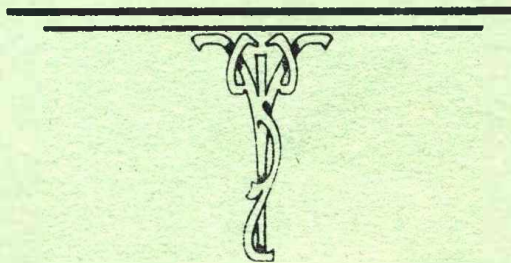


INSTRUMENTS
FOR
PER ORAL ENDOSCOPY



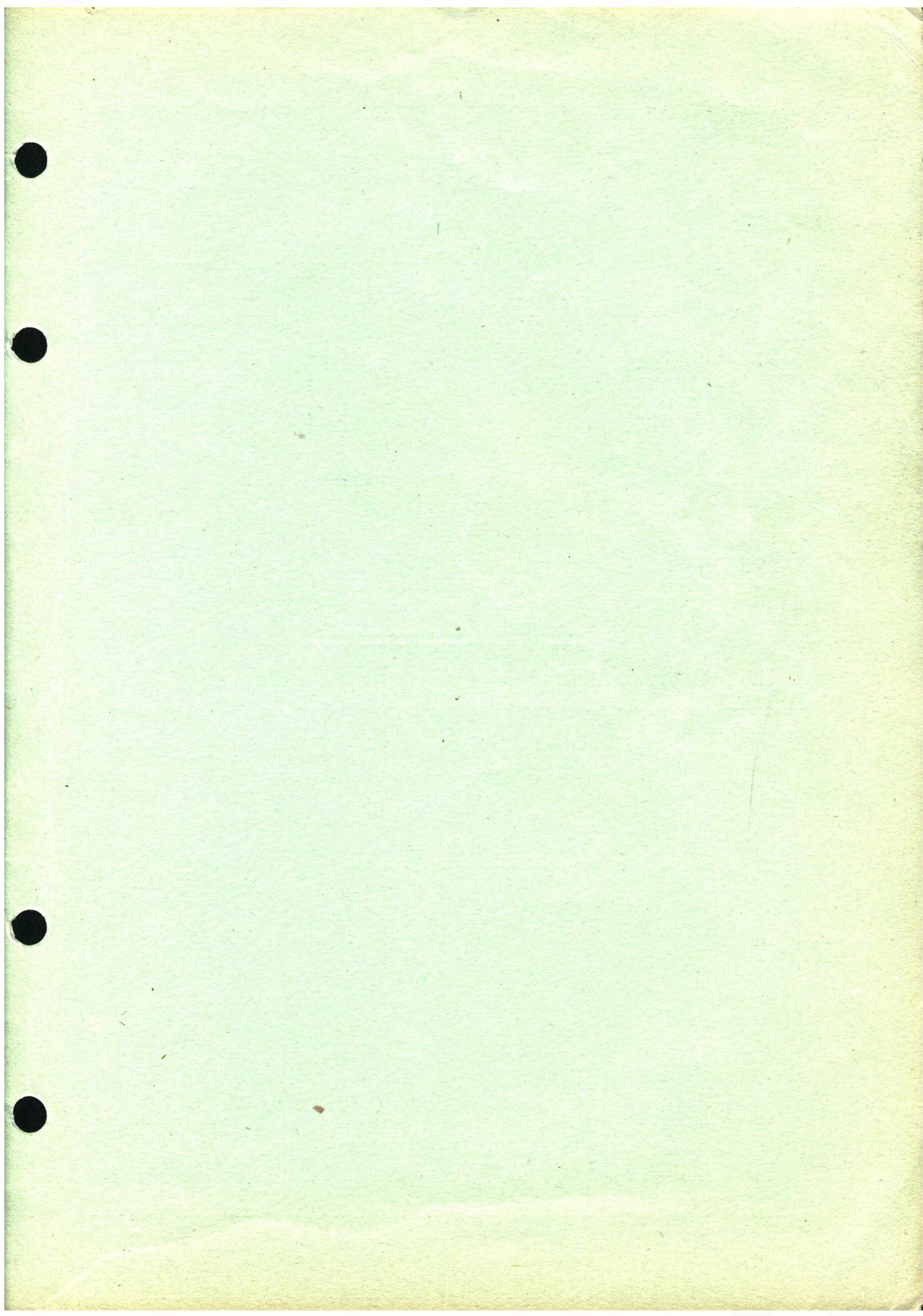
MADE BY
THE GENITO URINARY MFG. CO., LTD.,

28a DEVONSHIRE STREET,

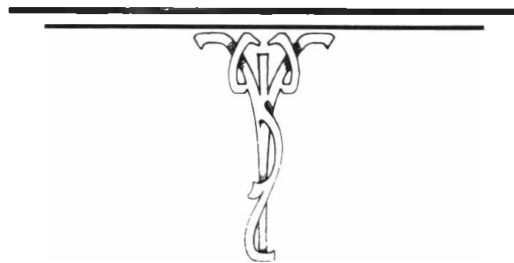
Telegrams :
CYSTOSCOPE, WESDO.
LONDON

LONDON, W.1

Telephones :
WELBECK 2835
(3 lines)



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Per Oral Endoscopes

By V. E. Negus, M.S., F.R.C.S.

THE instruments described in the following pages have been made in close collaboration with the author, and their practical value has been demonstrated in his Clinic over a number of years.

The Negus Laryngoscopes, Œsophageal Speculæ, and Œsophagoscopes have the source of light placed outside the speculum, leaving the full lumen free.

The details of construction can be clearly seen on outline drawings "A" and "B" of a Negus Laryngoscope.

Two small channels, welded to the speculum on opposite sides and in a slanting direction, hold two projector lamps in position. The wall of the speculum underlying these channels is cut away to allow the beams of light to enter the speculum.

The angle between the two beams is so arranged that they converge and cross each other on the point of emergence from the speculum, i.e., at the site of operation. The light is just sufficiently diffused to produce an even illumination in any plane situated up to four inches from the distal end of the instrument.

The electrical connection between the battery and the two lamps is established by means of a horse-shoe shaped lamp carrier, provided with screw sockets and cable connection. It can be readily removed from the speculum (with the lamps) and sterilized by boiling or any other known method. The design is both simple and strong.

The Negus Bronchoscopes are fitted with distal and proximal lighting. The latter is produced by a special prismatic projector detachably mounted on the square handle.

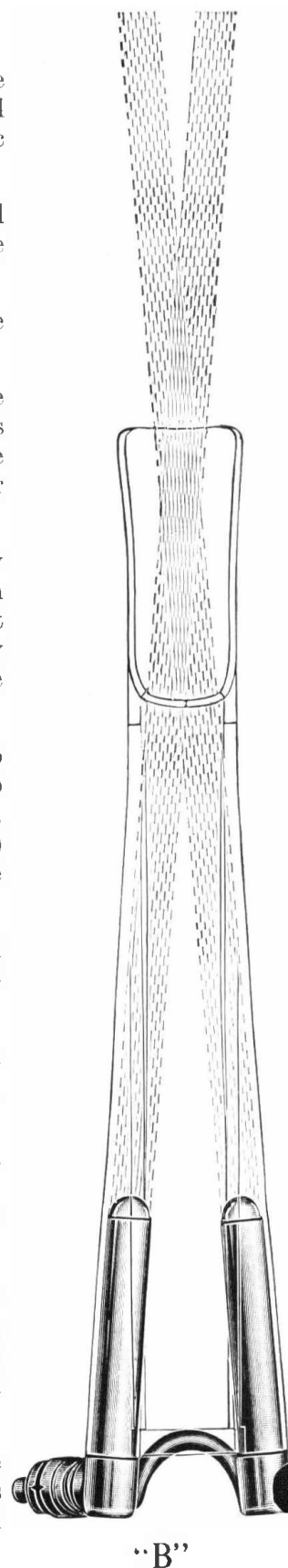
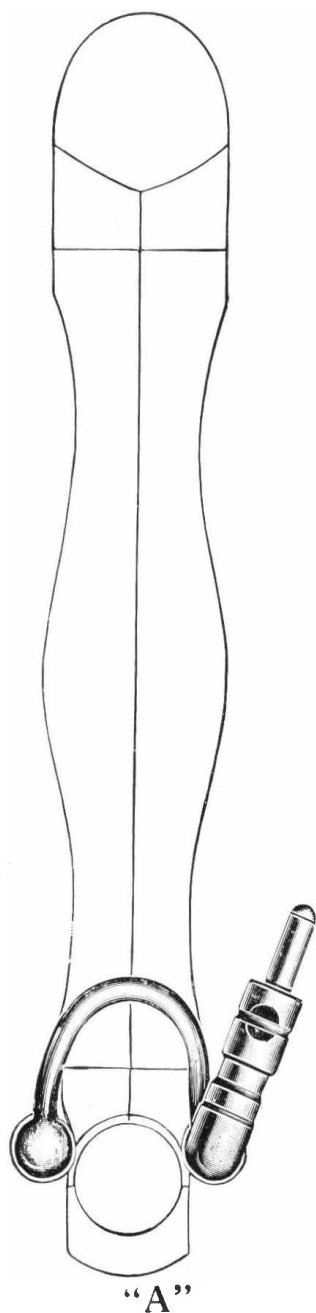
Proximal lighting in Bronchoscopes is only effective and valuable for diagnostic purposes. Except in the adult size, too much light is lost when instruments are passed.

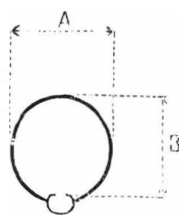
The proximal third of the Bronchoscopic tubes is expanded—funnel shaped—in order to facilitate vision during instrumentation, and to prevent glare when proximal illumination is used.

Particular attention has been paid to the sizes of the distal portion of the Bronchoscopic tubes, i.e., the part that passes between the vocal cords, and definite circumferential measurements, suitable to the age of the patient, have been determined.

The old practice of identifying these instruments by the size of the bore, regardless of the external measurements, has serious drawbacks, and often resulted in œdema or even trauma of the cords.

The results of his investigations are tabulated overleaf.





Cross Section of Bronchoscope Tube.

A. BRONCHOSCOPES.

Size.	Outside Diameter.	Inside Diameter. "A."	Inside Diameter Over Lamp. "B."	Circumference.	Length.
	mm.	mm.	mm.	mm.	cm.
Adult	11.0	10.0	8.7	35.0	40
Adult small	10.0	9.0	7.7	32.0	40
Adolescent... ..	9.0	8.0	6.7	29.0	40
Adult Aspirating	8.5	7.5	6.2	29.0	40
Child	8.0	7.0	5.7	26.0	30
Child Aspirating	7.5	6.5	5.2	26.0	30
Infant	6.0	5.4	4.1	19.5	27.5
Suckling's	4.8	4.1	3.2	15.0	27.5
Lower Bronchus	7.0	6.4	5.1	22.5	45

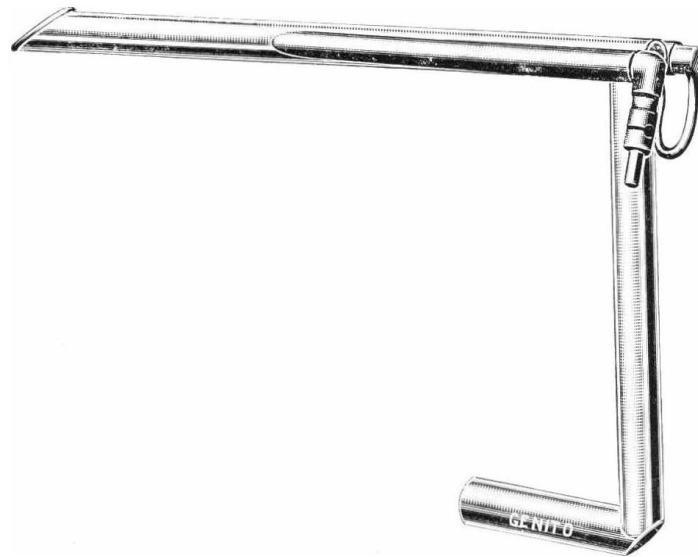
B. OESOPHAGOSCOPES.

Size.	Outside Diameter.	Inside Diameter.	Circumference.	Length.
	mm.	mm.	mm.	cm.
Adult extra long, full lumen	18 × 20	15.6 × 17.6	60	53
Adult long, full lumen	18 × 20	15.6 × 17.6	60	45
Adult long, medium lumen	14 × 16	11.6 × 13.6	48	45
Adult short	16 × 18	13.6 × 15.6	55	35
Child	10 × 12	8.0 × 10.0	35	35

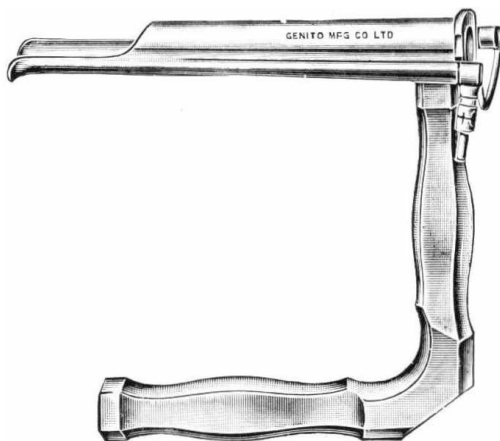
The sizes indicated in these tables are the most commonly used.

Special sizes can be made to order.

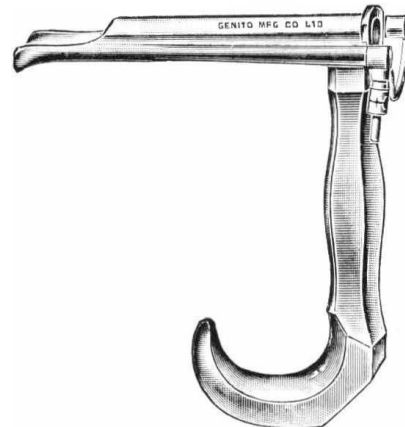
LARYNGOSCOPY



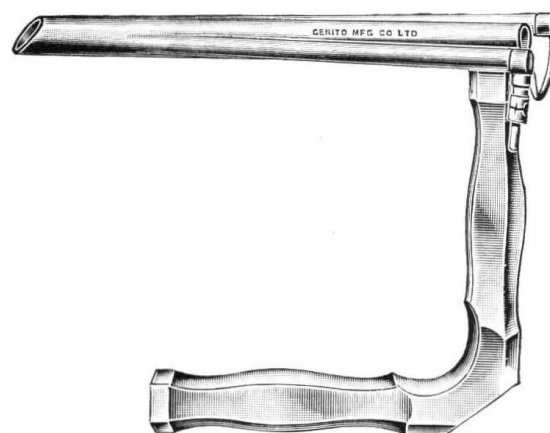
- 1501.** Tracheascope, Negus', with twin lamp carrier, and 2 lamps each
1501a. Extra Lamps 33



- 733.** Adult Laryngoscope, Negus', with twin lamp carrier, and 2 lamps each
733a. Extra Lamps ,,



- 734.** Child Laryngoscope, Negus', with twin lamp carrier, and 2 lamps each
734a. Extra Lamps ,,



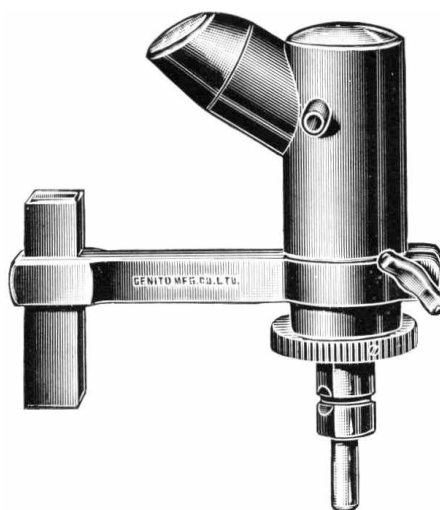
- 735.** Anterior Commissure Laryngoscope, Negus', with twin lamp carrier, and 2 lamps each
735a. Extra Lamps 33

Bronchoscopes

736.	Adult				
736a.	Small				
737.	Adult				
738.	Adult				
739.	Child				
740.	Child				
741.	Infant size, with 2 lamp carriers, and 2 lamps...	...			”
741a.	Suckling's size, with 2 lamp carriers ...	...	...		”
742.	Lower Bronchus size, with 2 lamp carriers, and 2 lamps	...			”

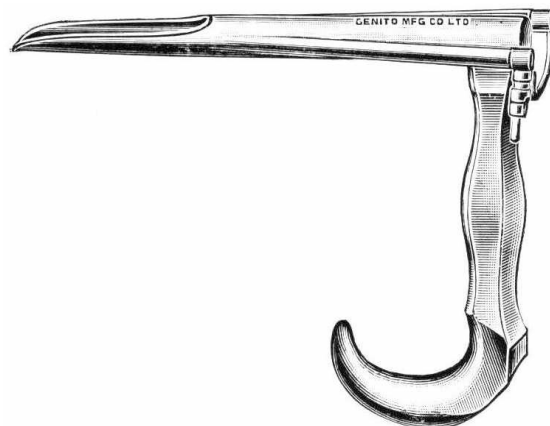
(For actual dimensions of Bronchoscopes see Table A, page 2.)

743.	Extra Lamps for above	”
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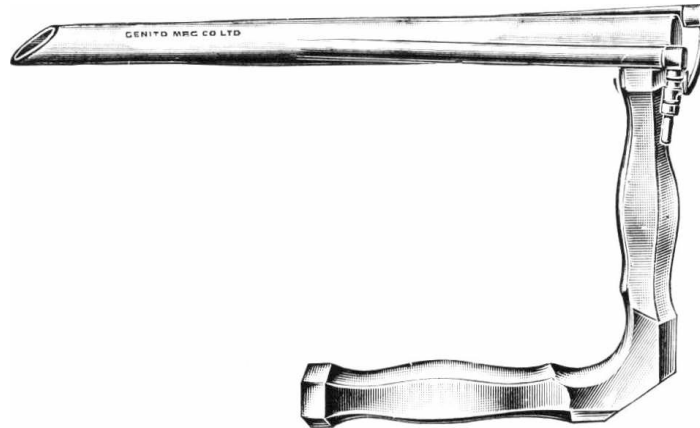


(Actual Size.)

744.	Proximal Beam Projector, with cable, and spare lamp	...				”
	(Interchangeable on all the above sizes.)					
744a.	Extra Lamps for Projector	...	...	...	...	”

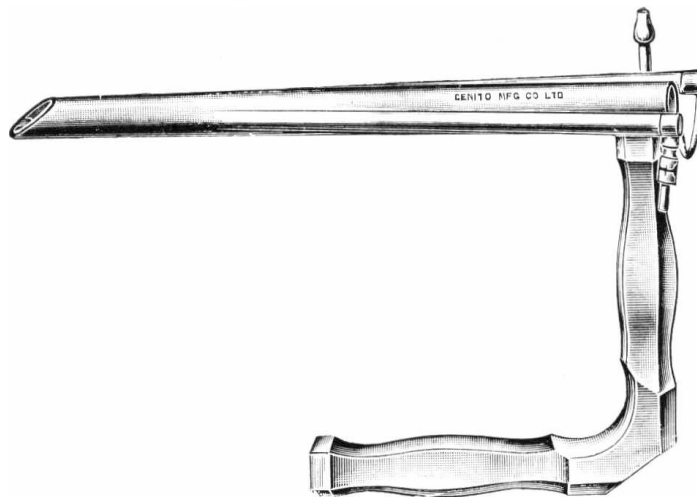


746. Child Œsophageal Speculum, Negus', with twin lamp carrier, and
 2 lamps each
- 746a. Extra Lamps



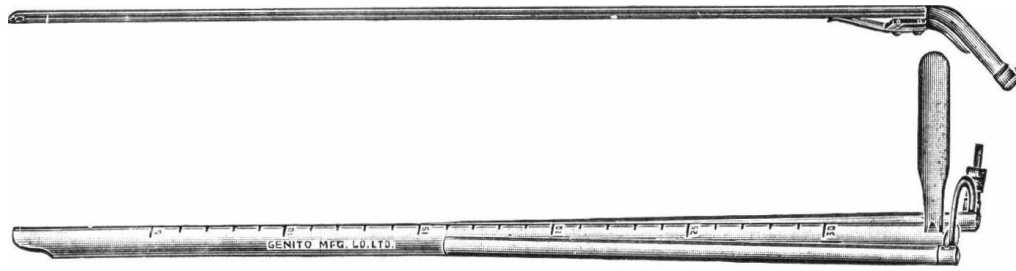
747. Adult Œsophageal Speculum with bevelled end, Negus', with twin lamp carrier, and 2 lamps each

747a. Extra Lamps ”



748. Adult Œsophageal Speculum, with bevelled end and aspirating tube, Negus', with twin lamp carrier, and 2 lamps each

748a. Extra Lamps ”

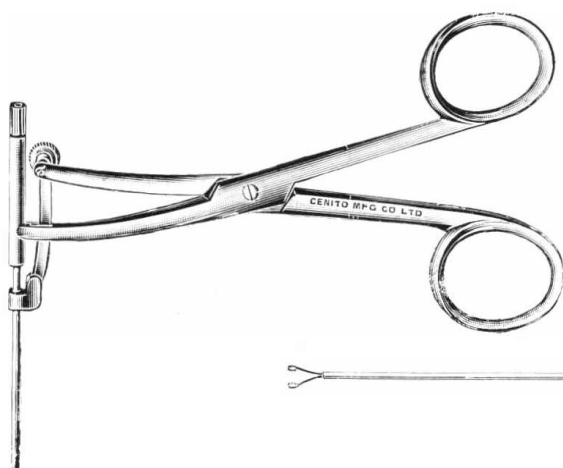


- | | | | | | |
|--------------|------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|
| 749. | Adult extra long Œsophagoscope, Negus', full lumen, graduated in cms., with twin lamp carrier, and 2 lamps | ... | ... | ... | each |
| 749a. | Detachable Suction Tube for above | ... | ... | ... | „ |
| 750. | Adult long Œsophagoscope, Negus', full lumen, graduated in cms., with twin lamp carrier, and 2 lamps | ... | ... | ... | each |
| 751. | Detachable Suction Tube for above | ... | ... | ... | „ |
| 752. | Adult long Œsophagoscope, Negus', medium lumen, graduated in cms., with twin lamp carrier, and 2 lamps | ... | ... | ... | each |
| 753. | Detachable Suction Tube for above | ... | ... | ... | „ |
| 754. | Adult short Œsophagoscope, Negus', graduated in cms., with twin lamp carrier, and 2 lamps | ... | ... | ... | each |
| 755. | Detachable Suction Tube for above | ... | ... | ... | „ |
| 756. | Child Œsophagoscope, Negus', graduated in cms., with twin lamp carrier, and 2 lamps | ... | ... | ... | each |
| 757. | Detachable Suction Tube for above | ... | ... | ... | „ |
| 758. | Extra Lamps | ... | ... | ... | „ |
| 759. | Switch and Cords for Negus Endoscopic Instruments | ... | ... | ... | „ |

(These cords are interchangeable on all instruments illustrated on pages 3 to 7, 27, 28, 30 and 31.)

(They can be sterilized by immersion in boiling water for three minutes.)

For actual dimensions of these Œsophagoscopes see table B, page 2.

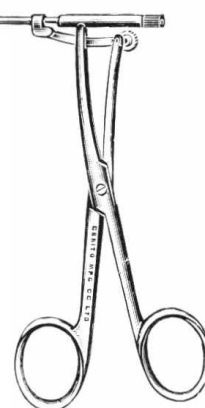








Negus' Bronchoscopic Forceps Handle gives more steadiness to the tip of the Forceps.

The sliding tube is extended beyond the junction, and engages an accurately bored out cylinder fixed to the opposite branch.

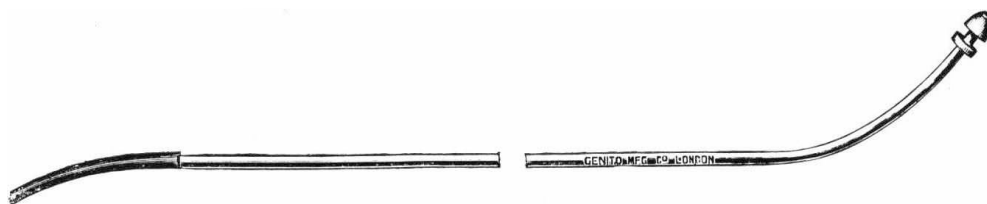
Chevalier Jackson's Forceps for Bronchoscopy and Esophagoscopy.

These Forceps are fitted on Negus' Forceps Handles.



				Length.
	858.	Side Grasping	... ..	35 c.m. each
	859.	Side Grasping	... ..	45 c.m. „
	860.	Side Grasping	... ..	50 c.m. „
	861.	Side Grasping	... ..	60 c.m. „
	862.	Forward Grasping	... ..	35 c.m. „
	863.	Forward Grasping	... ..	45 c.m. „
	864.	Forward Grasping	... ..	50 c.m. „
	865.	Forward Grasping	... ..	60 c.m. „
	866.	Rotation	... ..	35 c.m. „
	867.	Rotation	... ..	45 c.m. „
	868.	Rotation	... ..	50 c.m. „
	869.	Rotation	... ..	60 c.m. „
	870.	Biopsy	... ..	35 c.m. „
	871.	Biopsy	... ..	45 c.m. „
	872.	Biopsy	... ..	50 c.m. „
	873.	Biopsy	... ..	60 c.m. „
	874.	Peanut	... ..	35 c.m. „
	875.	Peanut	... ..	45 c.m. „
	876.	Peanut	... ..	50 c.m. „
	877.	Peanut	... ..	60 c.m. „
	878.	Tucker's Pin and Tack	... ..	35 c.m. „
	879.	Tucker's Pin and Tack	... ..	45 c.m. „
	880.	Tucker's Pin and Tack	... ..	50 c.m. „
	881.	Tucker's Pin and Tack	... ..	60 c.m. „
	862a.	Forward Grasping Forceps, extra fine, for Bronchoscopes, Nos. 741 and 741a each		
	858a.	Side Grasping	ditto ditto	„

Particulars and prices of special models on application.



788. Bronchoscopic Aspirating Tube, Negus', with flexible gum elastic end each
789. Extra Flexible Gum Elastic Ends for above „
790. Ditto, full curve... .. „



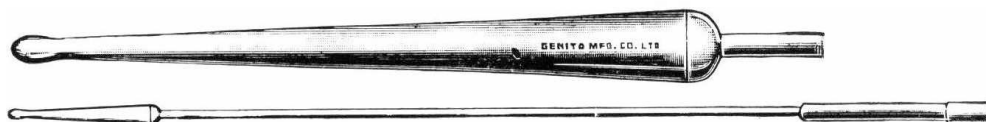
791. Oesophageal Aspirating Tube, Chevalier Jackson's, with two lateral eyes ; for use with Negus' Oesophagoscopes, medium and large each



792. Bronchoscopic Aspirating Tube, Chevalier Jackson's, open end ; large, medium, fine ; for use with Negus' Bronchoscope ... each



793. Swab Holders, Coolidge's, fine each
794. Ditto, „ medium „
795. Ditto, „ large „

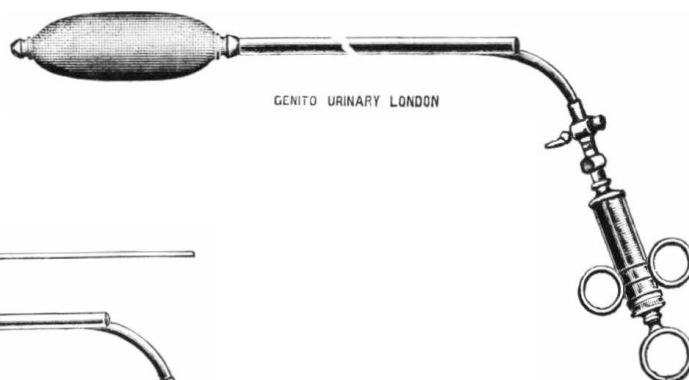


796. Bronchoscopic Dilators, Chevalier Jackson's, gum elastic, mounted on nickel-plated stem, sizes 8 to 16 Charriere each
797. Oesophageal Dilators, Chevalier Jackson's, gum elastic, mounted on nickel-plated stem, sizes 8 to 20 ; also 22, 24, 26, 28 and 30 Charriere each
798. Ditto, sizes 34 and 38 Charriere „

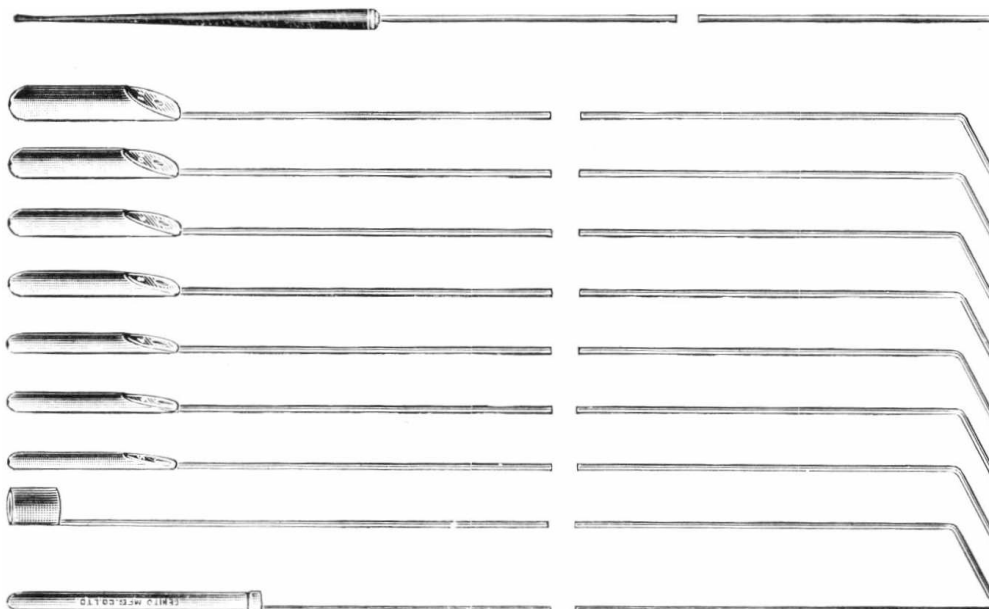
(These Dilators are woven directly on to the hemispherical metal mount by a process which results in a smooth surface without step.)



- 1502.** Olivary Dilators, Negus', set of 5, sizes 14, 19, 24, 29 and 34 Charriere, strung on twisted silk cord each

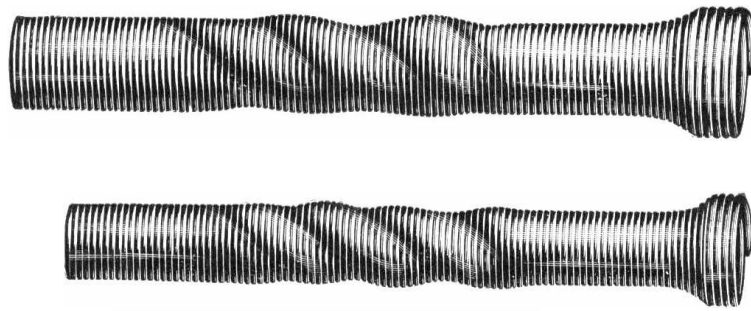


- 815.** Hydrostatic Oesophageal Dilator, Negus', consisting of dilating bag flexibly mounted on metal tube with stopcock, Filiform bougie for conducting dilator into stricture, and 20 c.c. metal syringe with 3 finger rings each
- 816.** Hydrostatic Oesophageal Dilator, Gabriel Tucker's, as above, but without filiform conductor, 2 sizes each

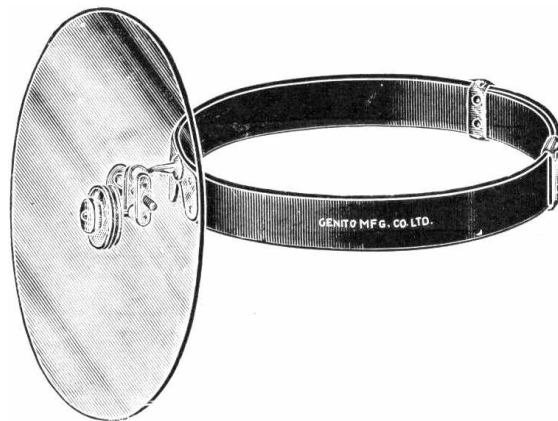


- 817.** Souttar's Set of Instruments for Oesophageal Intubation, consisting of :
- 1 Conductor with flexible gum elastic tip 8 Charriere.
 - 7 Aluminium Dilators, 5 to 11 mm. in diameter.
 - 2 Mandrils for intubation tubes (2 sizes).
 - 2 Rings for releasing tubes (2 sizes).
- Complete with 2 Tubes per set

(see "The British Journal of Surgery," July, 1927)



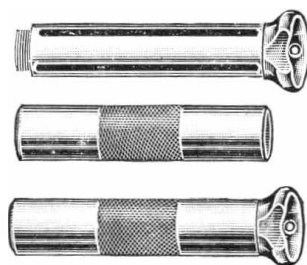
818. Souttar's Tubes, in gold-plated nickel wire, 2 sizes ... each



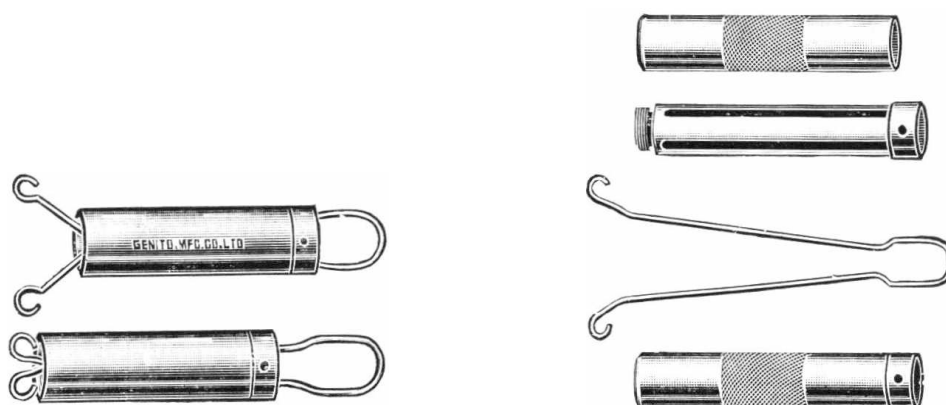
820. Revolving Eye Shield, Negus' 25
 821. Spare Glass for above 25



822. Specimen Collector, Luken's, "Pyrex" glass, with I.R. tubing
 and bung each



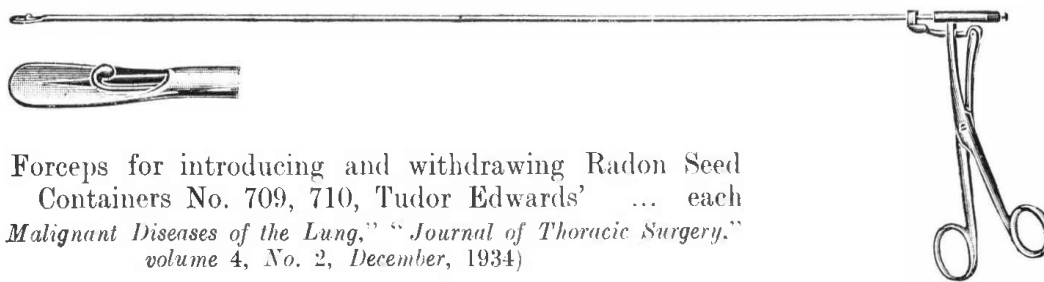
- 701.** Radon Seed Container, Tudor Edwards', with 0.3 mm. platinum screen, for irradiation in main bronchii, diameter 4.8 mm., to hold 8 seeds each
- 702.** Ditto, diameter 5.5 mm., to hold 8 seeds ,
- 703.** Ditto, ,, 4.8 mm., ,, 12 ,, ,
- 704.** Ditto, ,, 5.5 mm., ,, 12 ,, ,
- 705.** Ditto, ,, 6.0 mm., ,, 12 ,, ,
- 706.** Ditto, ,, 6.6 mm., ,, 12 ,, ,
- 707.** Ditto, ,, 6.0 mm., ,, 16 ,, ,
- 708.** Ditto, ,, 6.6 mm., ,, 16 ,, ,



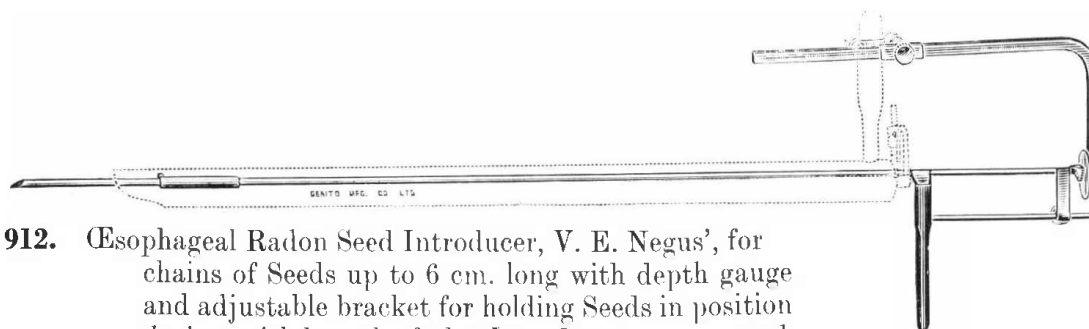
- 709.** Radon Seed Container, Tudor Edwards', with 0.3 mm. platinum screen, with expanding spring, for irradiation in main bronchii, diameter 7.3 mm., to hold 12 seeds each
- 710.** Ditto, diameter 7.3 mm., to hold 16 seeds... .. ,
- 711.** Radon Seed Containers, Tudor Edwards', one of each of above ten different sizes, with 0.3 mm. platinum screen, in mahogany case approximately per set

(see "Malignant Diseases of the Lung," "Journal of Thoracic Surgery," volume 4, No. 2, December, 1934)

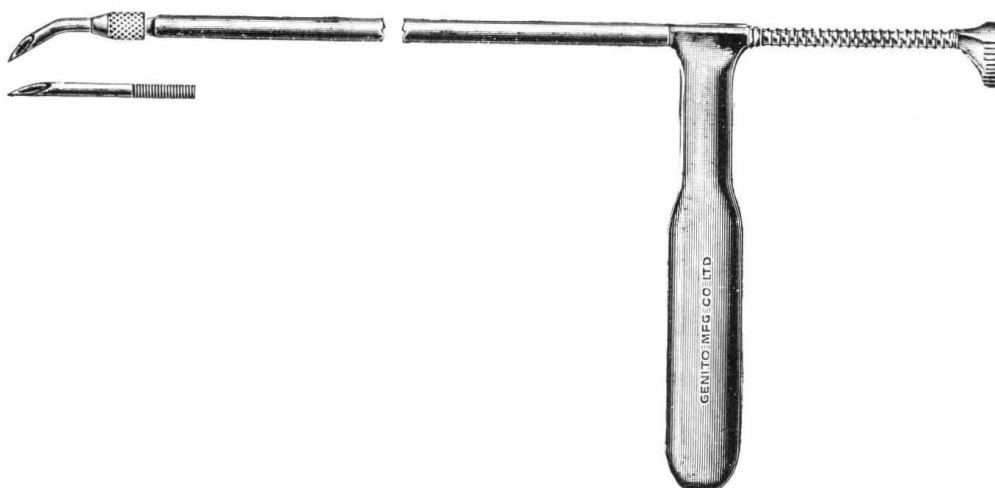
The price of these Containers is approximate and subject to alteration,
owing to the fluctuation in cost of platinum.



712. Forceps for introducing and withdrawing Radon Seed Containers No. 709, 710, 'Tudor Edwards' ... each
 (see "*Malignant Diseases of the Lung*," "*Journal of Thoracic Surgery*," volume 4, No. 2, December, 1934)

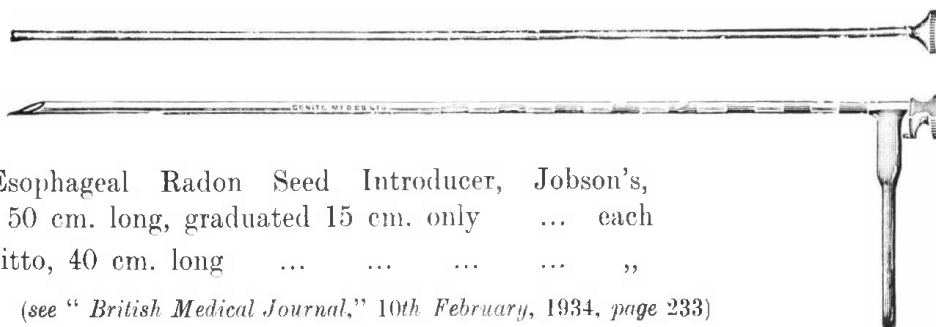


912. Oesophageal Radon Seed Introducer, V. E. Negus', for chains of Seeds up to 6 cm. long with depth gauge and adjustable bracket for holding Seeds in position during withdrawal of the Introducer ... each

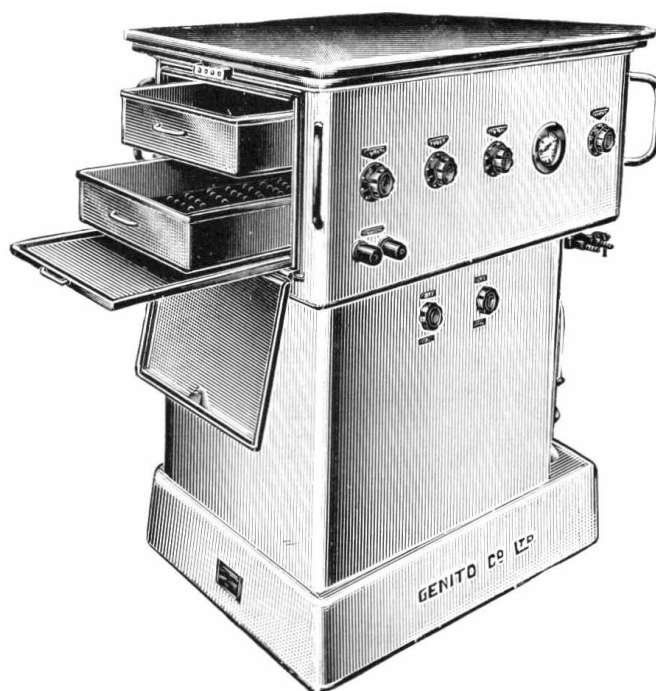


713. Oesophageal Radon Seed Introducer, Radium Institute pattern, 50 cm. long, with straight and curved needle each
 714. Ditto, 40 cm. long ,,
 715. Laryngeal Radon Seed Introducer, Radium Institute pattern, 27½ cm. long, with straight and curved needle each

(see "*Recent Advances in Radium*," Fig. 22, page 72)



716. Oesophageal Radon Seed Introducer, Jobson's, 50 cm. long, graduated 15 cm. only ... each
 717. Ditto, 40 cm. long ,,
 (see "*British Medical Journal*," 10th February, 1934, page 233)



Endoscopic Instrument Table

THE technique of Per oral Endoscopy requires a safe and reliable low tension electric supply, and an efficient vacuum pump. These requirements can be met by separate batteries or portable transformers and vacuum pump, but the limited space round the operating table is very much encumbered by such an arrangement.

At the request of Mr. V. E. Negus, M.S., F.R.C.S., we have designed an instrument table containing the necessary equipment for low tension current and suction; a table which occupies less than 4 ft. square of floor space. Current from the alternating supply mains is led to the various components through a single robust and waterproof cable.

The table consists of a cast aluminium alloy cabinet with stainless steel top, mounted on four ball-bearing castors. To each of the four corners a handle is fitted for the dual purpose of protecting the projecting control knobs and terminals and to provide a handhold for moving the table. The cabinet is divided into two compartments, the upper and the lower. The upper compartment contains the formalin Sterilizer with an airtight door and two instrument trays $13\frac{1}{2}$ " wide and 3" deep. The upper tray is $27\frac{1}{2}$ " long and the lower one $21\frac{1}{2}$ ". External to the sterilizer are the transformer and the control gear. The lower compartment contains the pump and motor, fusebox, and two sparkless switches controlling the motor and transformer circuits. The spindles actuating these switches pass through gastight bushes to the outside of the cabinet, and terminate in handles marked "Pump" and "Light".

The low tension circuits, four in number, are regulated by a corresponding number of knobs with graduated scales located at the front of the cabinet. These circuits terminate in four pairs of spring clip terminals, three of which are fixed at one end of the cabinet, and the fourth in front directly under the regulating knob. The maximum voltage in each circuit is as follows: 10—8—4 volts.

At the back of the table a three-pin socket supplies current at main line voltage to auxiliary apparatus used in the course of an operation (special projector lamps, saws, etc.).

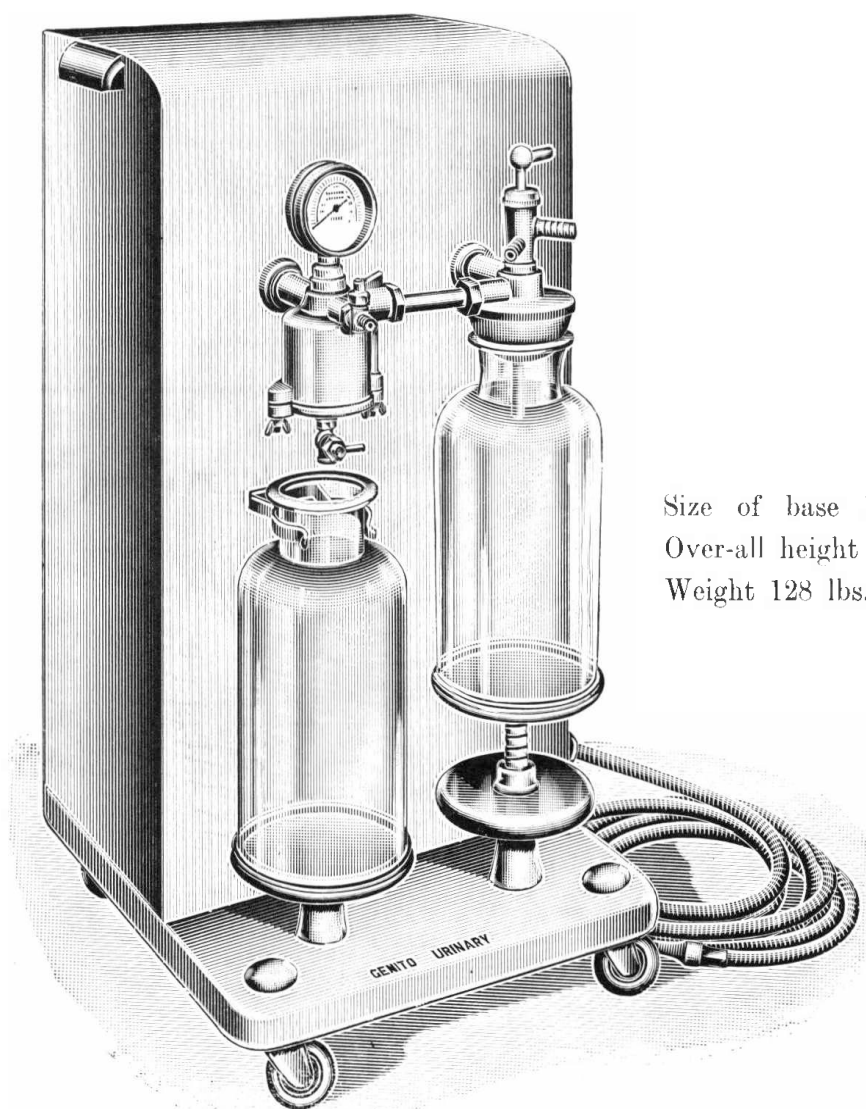
On the same side and below is the airtight door giving access to the lower compartment containing the pump and main fuses. The oil immersed rotary vacuum pump has a displacement of 16 litres per minute. It is driven by a ventilated $\frac{1}{4}$ h.p. motor with V-belt drive. The pump and motor are mounted on a metal base suspended by means of four tension springs from the floor of the upper compartment. This mode of assembly eliminates vibration and noise. The motor is controlled by one of the two sparkless switches fixed to the front of the compartment. The specially designed quick release G.U. bottle-holder is fixed in a recess at one end of the cabinet, together with a spare 80 oz. bottle held in a clip by the side of the bottle in use, and an overflow trap. Two inlet ports at a right angle to one another are provided controlled by a single two-way cock. The vacuum gauge is mounted in the upper compartment, flush with the outside.

All fittings are chromium plated and the cabinet is finished with several coats of cream enamel.

The standard table is designed for alternating current single-phase 50 cycles. Other frequencies and the supply voltage must be indicated when ordering.

760. Endoscopic Instrument Table, Negus' each
Packing, carriage, and insurance at cost.

(Please state voltage and periodicity of current when ordering.)



Size of base 14"×16".
Over-all height 26".
Weight 128 lbs.

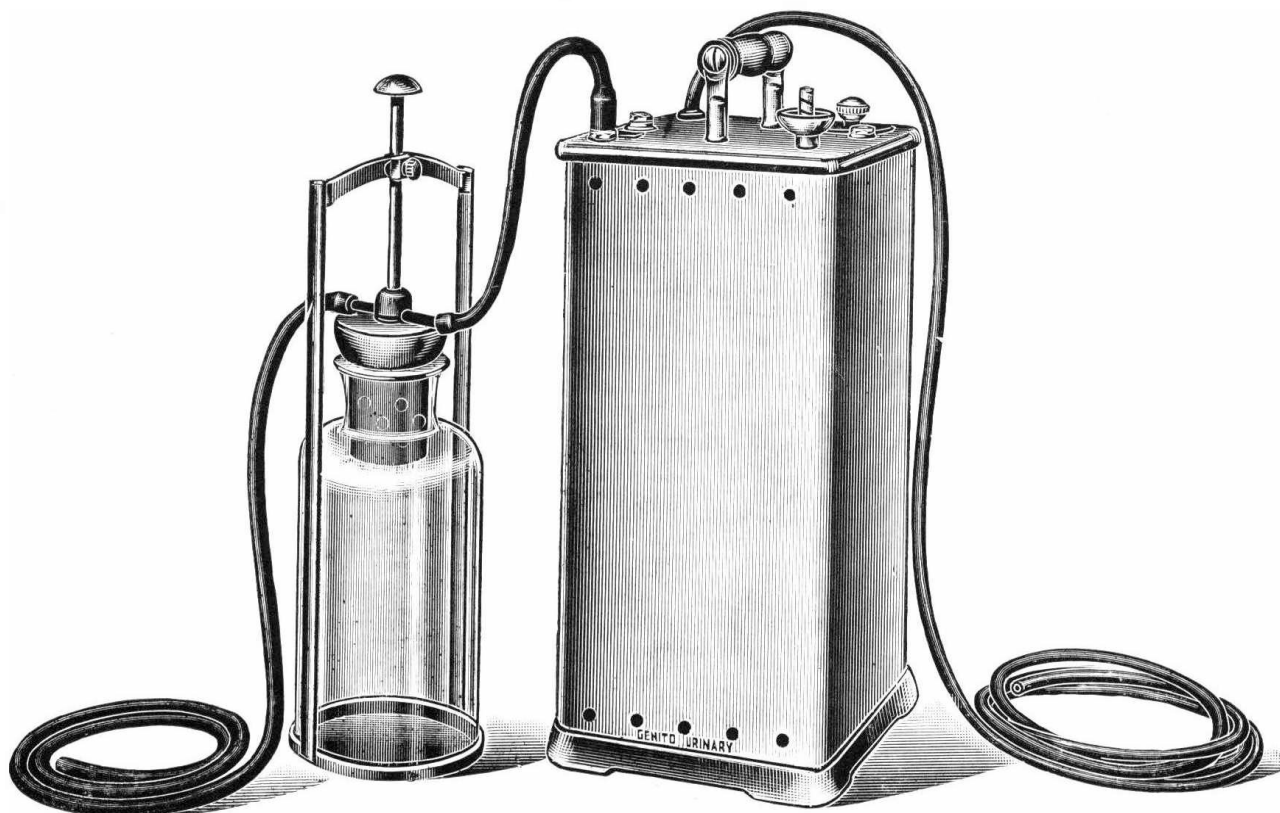
- 761a.** Rotary High Vacuum Pump, with single-phase alternating current motor each
Packing, carriage, and insurance at cost.

(Please state voltage and periodicity of current when ordering.)

- 761b.** Rotary High Vacuum Pump, with direct current motor each
Packing, carriage, and insurance at cost.

(Please state voltage when ordering.)

The oil immersed pump has a displacement at atmospheric pressure of 16 litres per minute. It is driven by a $\frac{1}{4}$ h.p. totally enclosed gastight motor with V belt. Pump and motor are suspended by means of four tension springs in a cast aluminium alloy cabinet mounted on $2\frac{1}{2}$ " ball-bearing castors. This mode of assembly eliminates vibration and noise. The motor is controlled by a sparkless switch and needs no attention over long periods. The G.U. quick release bottle-holder with two-way cock, and the overflow trap with vacuum gauge, are fixed to the front of the cabinet. Two 80 oz. bottles and 6 ft. of vacuum tubing are included in the price.



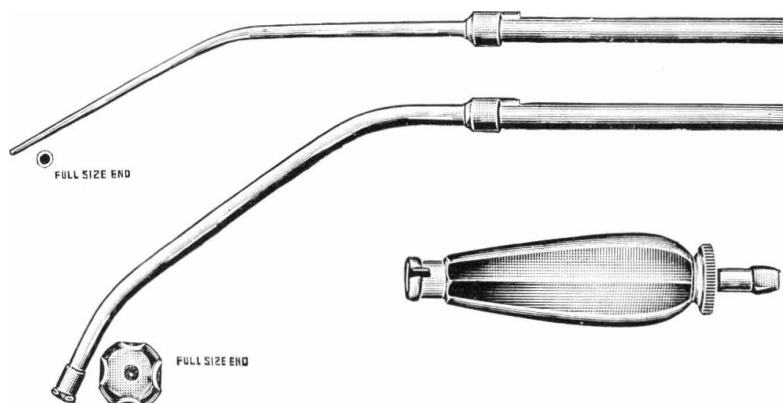
- 1503a.** Portable Vacuum Pump, with single-phase alternating current $\frac{1}{8}$ h.p.
 motor each
 Packing, carriage and insurance at cost.

(Please state voltage and periodicity of current when ordering.)

- 1503b.** Portable Vacuum Pump, with $\frac{1}{8}$ h.p. direct current motor ... each
 Packing, carriage and insurance at cost.

(Please state voltage when ordering.)

The rotary self-lubricating pump has a displacement of 8 litres per minute at atmospheric pressure. It is driven by a totally enclosed gastight $\frac{1}{8}$ h.p. motor assembled on superimposed platform suspended in a sheet metal case for silent running. The motor is controlled by a sparkless switch. The overall dimensions are $8\frac{1}{4}" \times 9\frac{1}{4}" \times 18\frac{1}{2}"$ high, and the weight is 45 lbs.



Suction Tubes on interchangeable handle, chromium plated :—

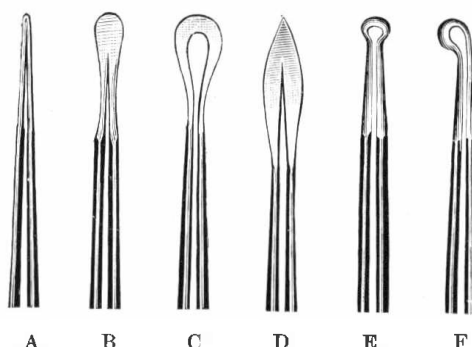
662a. Handle.

662b. Fine nasal suction tube.

662c. Yankhauer suction tube.

668. Vacuum Tubing—for Bronchoscopic suction tubes Nos. 788, 791, and 792

669. Vacuum Tubing—for use with suction tubes No. 662

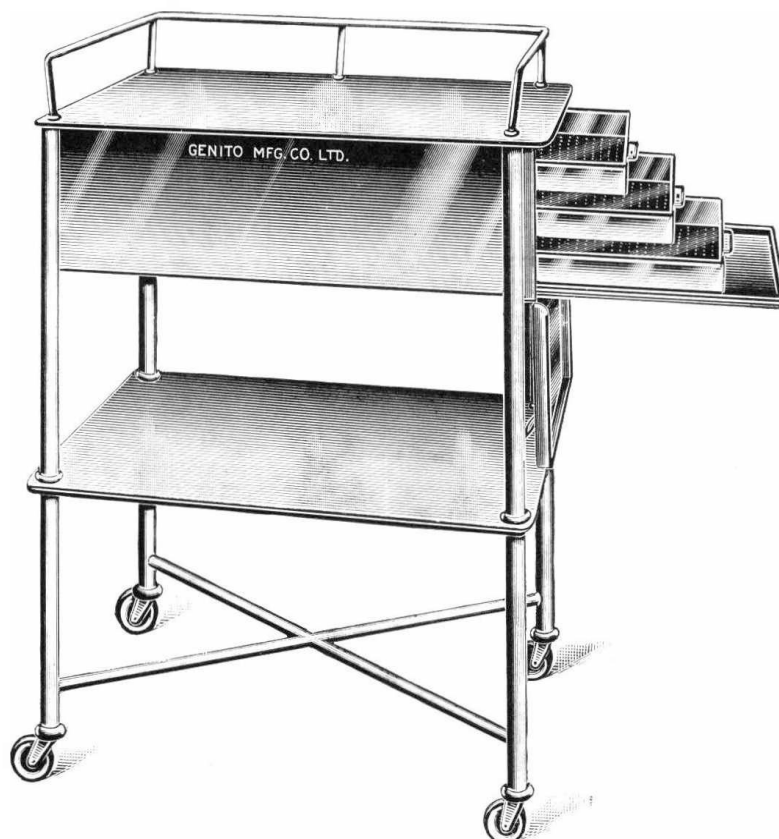


1054. Cautery Handle, Mark Hovell's, with cable, boilable.

1055. Nasal Cauterizers, A to F.

1056. Laryngeal Cauterizers, A to F.

(These cautery points can be sterilized by boiling.)



- 762.** Formalin Sterilizer Trolley for endoscopic instruments, Papworth model, size 30" × 18" × 36" high, chrome plated, with gas-tight door, and three perforated trays 2" deep, size 28" × 13½". The trolley has a rail on three sides, and is fitted with 2½" ball-bearing castors each

Packing, carriage, and insurance at cost.

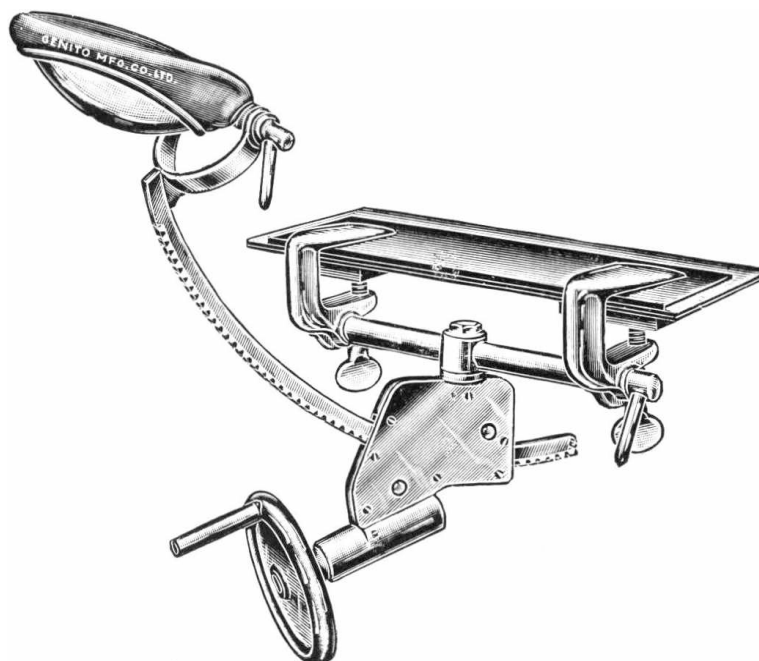
- 762a.** Water Trough, detachable, size 24" × 6" × 4", chrome plated, for use with Formalin Sterilizer Trolley No. 762 each

This trough is hooked on the rail of the trolley, and filled with sterile water. When the instruments are taken out of the formalin chamber they are plunged into the water, and any formalin deposit washed off.

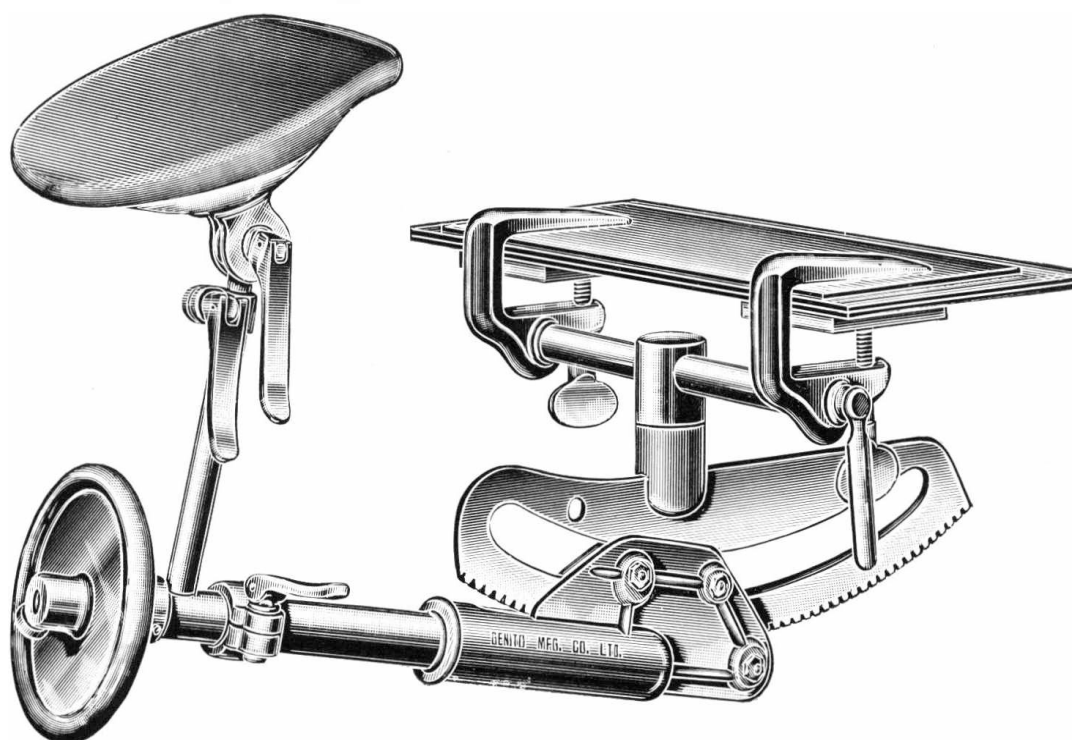
- 762b.** Formalin Sterilizer Trolley, Papworth model, as No. 762, but electrically heated each

Packing, carriage, and insurance at cost.

(Please state voltage and periodicity of current when ordering).

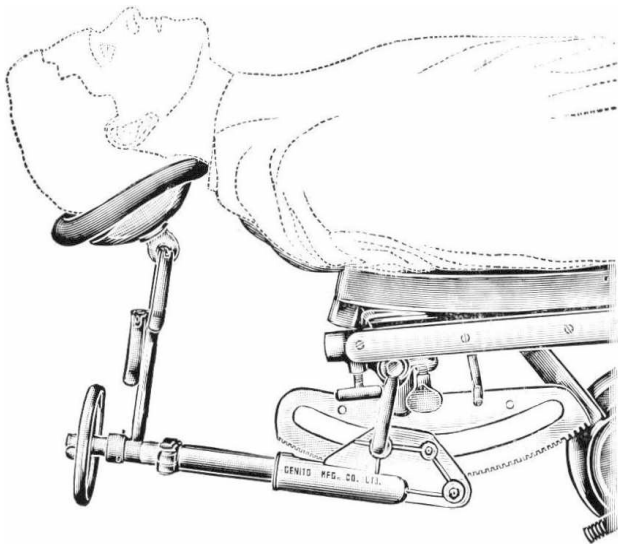


- 763.** Bronchoscopic Head Rest, G.U. modification of Haslinger's, chrome plated finish, with sponge rubber cover, with clamps to fit almost any make of operating table each
- 763a.** Bronchoscopic Head Rest, G.U. modification of Haslinger's, chrome plated finish, with sponge rubber cover, to fit Universal Operating Table, Brompton Hospital model only each

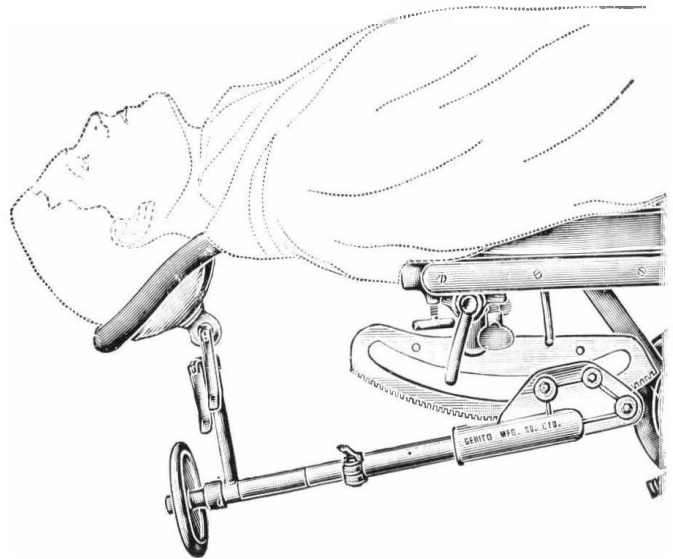


- 910.** Universal Head Rest for Bronchoscopy and Oesophagoscopy, chrome plated finish, with sponge rubber cover, with clamps to fit almost any make of operating table each
- 910a.** Universal Head Rest for Bronchoscopy and Oesophagoscopy, chrome plated finish, with sponge rubber cover, to fit Universal Operating Table, Brompton Hospital model only... .. each

Universal Headrest for Bronchoscopy and Œsophagoscopy



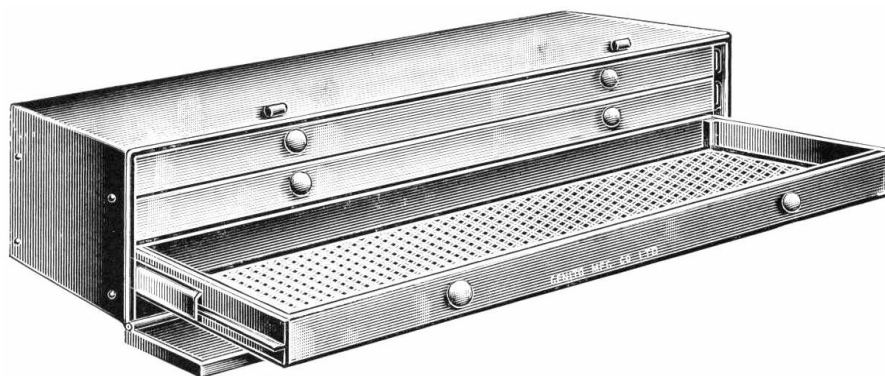
Raised extended position for
Bronchoscopy and examination
of upper region of œsophagus.



Low expended position for
examination of lower
region of œsophagus.



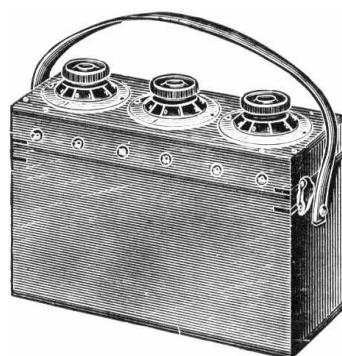
Sitting position for operation on
the ear or nose. (Legs horizontal.)



764. Formalin Sterilizer for endoscopic instruments, Negus' pattern, with three perforated trays $31" \times 11" \times 1\frac{1}{2}"$ deep, nickel-plated hard brass each

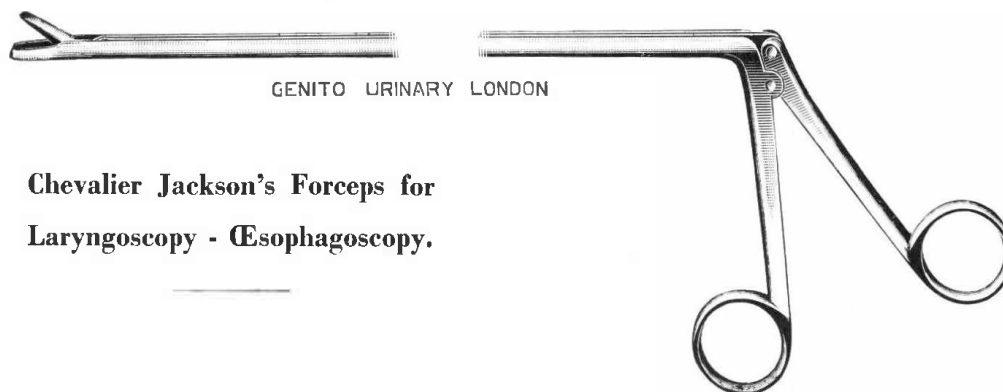
764a. Ditto, electrically heated „

These trays are mounted on extension bars in such a way that the whole tray can be drawn out.



765. Triple-Cell Battery Box, with three separate circuits and rheostats, each

766. Spare Dry Cells, type GS.4... .. „

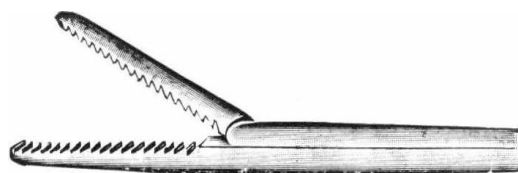


**Chevalier Jackson's Forceps for
Laryngoscopy - Œsophagoscopy.**

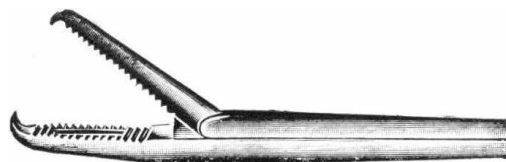
NOTE: 28 cm. forceps are suitable for use with Negus' Laryngoscope No. 733.

35 cm.	„	„	„	„	Negus' Œsophageal Speculum No. 745.
40 cm.	„	„	„	„	Negus' Œsophagoscope, short model, No. 754.
50 cm.	„	„	„	„	Negus' Œsophagoscope, long model No. 750.

These forceps can be supplied in other lengths to special order.



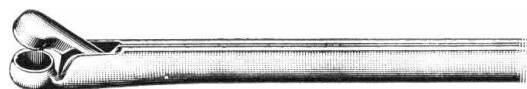
767. Chevalier Jackson's Grasping Forceps, stainless steel, 28 cm. ... each
768. Ditto, 35 cm. ... „
769. Ditto, 40 cm. ... „
770. Ditto, 50 cm. ... „



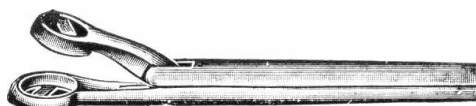
771. Chevalier Jackson's Rotation Forceps, stainless steel, 28 cm. ... each
772. Ditto, 35 cm. ... „



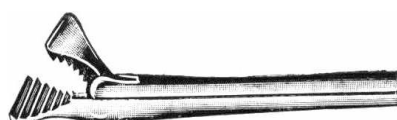
773. Bronchoscopic Biopsy Forceps, Brian Taylor's, stainless steel, 28 cm. ... each
 774. Ditto, 40 cm. ...
 775. Ditto, 50 cm. ...



- 775a. Bronchoscopic Biopsy Forceps, R. C. Brock's, with sharp cup jaws, 50 cm., straight, ...
 775b. Ditto, with angled jaws ...



776. Chevalier Jackson's Tissue Punch Forceps, stainless steel, 28 cm. each



777. Chevalier Jackson's Papilloma Forceps, stainless steel, 28 cm. ... each



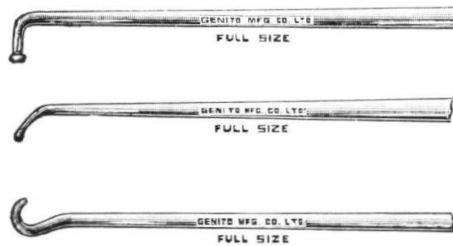
778. Chevalier Jackson's Nodule Forceps, with angular cup jaws, stainless steel, 28 cm. each ...
 779. Ditto, 35 cm. ...
 780. Ditto, 50 cm. ...



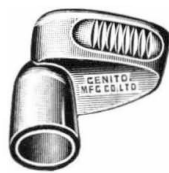
781. Patterson's Forceps, with cutting jaws, stainless steel, 28 cm. ... each
 782. Ditto, 35 cm. ...
 783. Ditto, 50 cm. ...



784. Chevalier Jackson's Foreign Body Forceps, fine, 40 cm., stainless steel, for use with Oesophagoscope No. 756 ... each



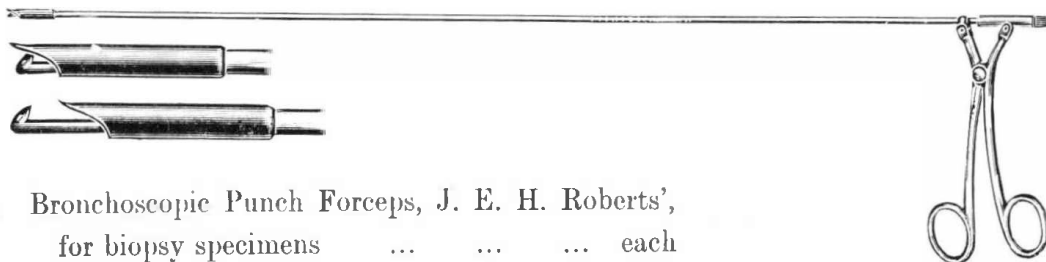
- | | | | | | | | |
|------|-----------------------------------------------------------|-----|-----|-----|-----|-----|------|
| 800. | Blunt Hook, Chevalier Jackson's, right angle, 45 cm. long | ... | ... | ... | ... | ... | each |
| 801. | Ditto, right angle, 60 cm. long | ... | ... | ... | ... | ... | " |
| 802. | Ditto, foroblique, 45 cm. long | ... | ... | ... | ... | ... | " |
| 803. | Ditto, foroblique, 60 cm. long | ... | ... | ... | ... | ... | " |
| 804. | Ditto, curved, 45 cm. long | ... | ... | ... | ... | ... | " |
| 805. | Ditto, curved, 60 cm. long | ... | ... | ... | ... | ... | " |



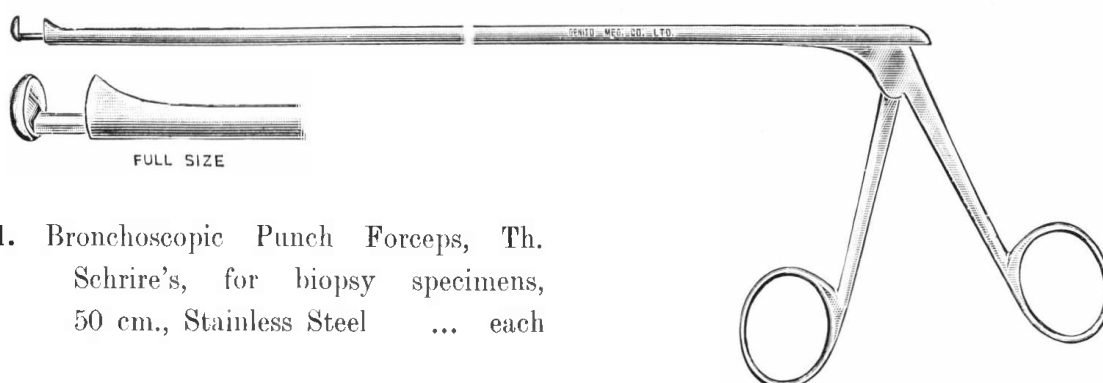
- | | | | | | | | |
|------|--------------------------------------------------------|-----|-----|-----|-----|-----|------|
| 806. | Bite Block, Irwin Moore's, adult size | ... | ... | ... | ... | ... | each |
| 807. | Ditto, child size | ... | ... | ... | ... | ... | " |
| 808. | Bite Block, Chevalier Jackson's, aluminium, adult size | ... | ... | ... | ... | ... | " |
| 809. | Ditto, child size | ... | ... | ... | ... | ... | " |



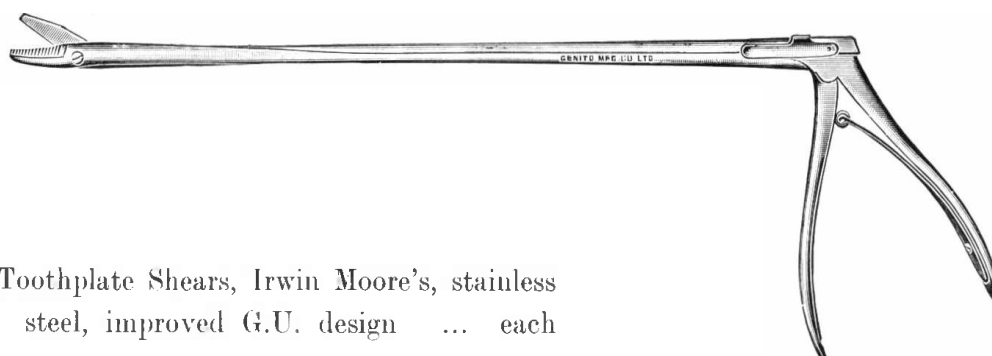
- | | | | | | | | |
|------|-------------------------------------|-----|-----|-----|-----|-----|------|
| 810. | Cocaine Spray, Clerf's, 40 cm. long | ... | ... | ... | ... | ... | each |
| 811. | Ditto, 28 cm. long | ... | ... | ... | ... | ... | " |
| 812. | Bellows for either of above | ... | ... | ... | ... | ... | " |



- | | | | | | | |
|------|-------------------------------------------------------------------------|-----|-----|-----|-----|------|
| 813. | Bronchoscopic Punch Forceps, J. E. H. Roberts',
for biopsy specimens | ... | ... | ... | ... | each |
|------|-------------------------------------------------------------------------|-----|-----|-----|-----|------|



911. Bronchoscopic Punch Forceps, Th. Schrire's, for biopsy specimens, 50 cm., Stainless Steel ... each



814. Toothplate Shears, Irwin Moore's, stainless steel, improved G.U. design ... each



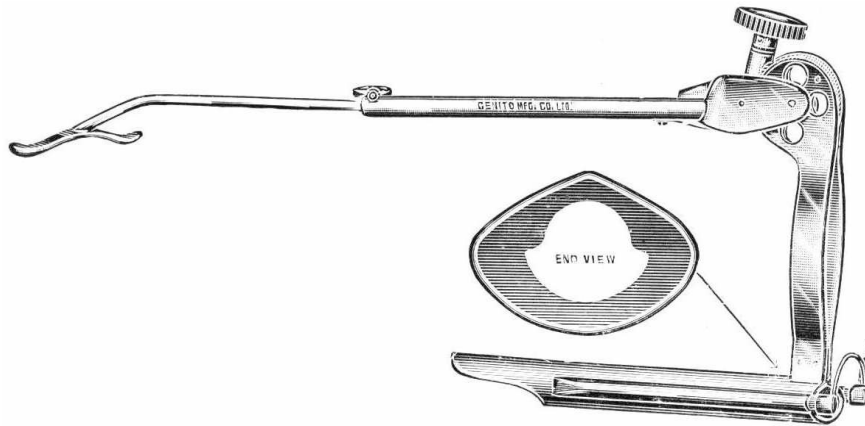
659. Laryngeal Diathermy and Endothermy (Cutting) Electrodes, Bedford Russell's, consisting of:—

1 Laryngeal Diathermy Electrode with 3 stems, 17, 22 and 28 cms. respectively, and 4 silver balls.

1 Laryngeal Endo-Diathermy Electrode with 3 stems, 17, 22 and 28 cms. respectively.

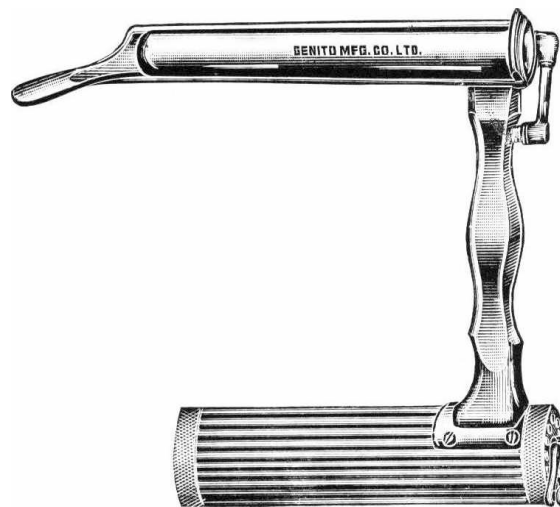
The above set complete in polished mahogany case... *** *** ***

499. Cable for above each



823. Self-retaining (Operating) Laryngoscope, Glass' modification of Negus',
with counter pressure lever and fine wormgear adjustment ... each

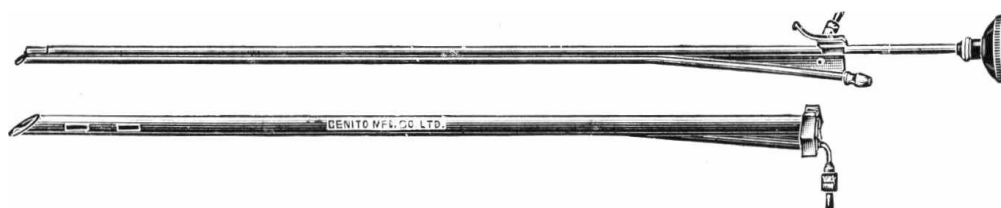
823a. Extra Lamps „



824. Laryngoscope, Richards' modification of Negus', with battery in
handle each

824a. Extra Lamps „

824b. Extra Battery, No. 1839, for above „

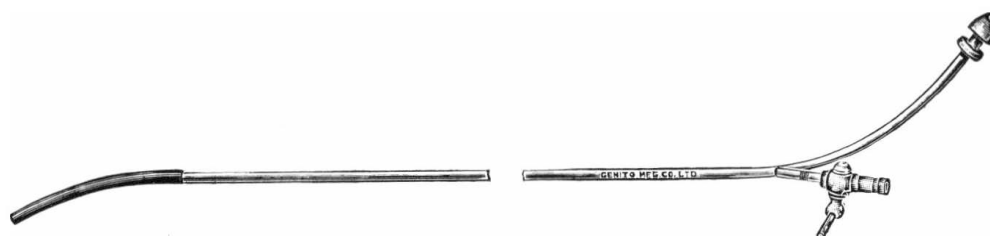


825. Bronchoscope, Scott Pinchin-Morlock's, consisting of :—

- 1 Bronchoscope, adult size.
- 1 Telescope.
- 1 Operating Attachment, straight, with lamp.
- 1 Operating Attachment, curved, with lamp.
- 1 Lamp Carrier, with lamp.
- 3 spare Lamps.
- 1 Cable.
- 3 Suction Tubes, silk web, with spring stilettes.
- 1 Suction Tube, fine, straight, open end.
- 1 Suction Tube, large, straight, open end.
- 1 pair Forward Grasping Forceps.
- 1 pair Biopsy Forceps.
- 1 Diathermy Electrode, with adjustable spike.
- 1 Diathermy Electrode, with 3 mm. ball.
- Complete in mahogany case each

This bronchoscope is invaluable for diathermy operations in the bronchus. The operating attachments with telescope give accurate control over the tip of the electrode, and enable the operator to confine the coagulating action to the neoplasm he wishes to destroy.

The authors have described the instrument and accessories in "*The British Medical Journal*," 2nd March, 1935, page 420.



826. Bronchoscopic Aspirating Tube, Scott Pinchin-Morlock's, with flexible end, and side cock, for lipiodol injection each

(see "*The Lancet*," 26th March, 1932, page 671)

826a. Extra gum elastic Ends for above each

Bronchoscopic Telescopes giving wide angle close-up views of the trachea and bronchii are made in the following 3 models :—

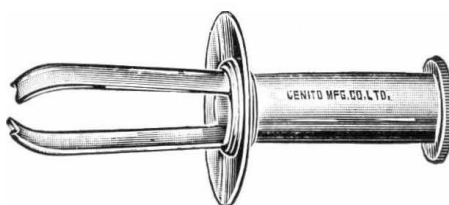
- (a) 90° Telescope for inspection of the subglottic region and trachea.
- (b) Direct vision Telescope for inspection of the main bronchii.
- (c) Retrograde vision Telescope for inspection of the upper lobe bronchii.

Telescope (a) 90°, for inspection of trachea is used with the Negus Laryngoscope No. 733. A special spring adapter is made to hold it in position.

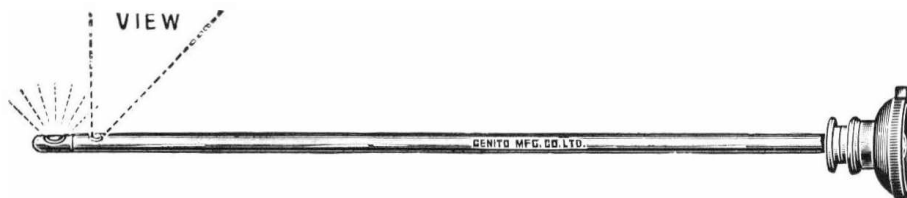
The Retrograde Telescope can be used through any bronchoscopic tube ; it is fitted as the 90° Telescope with a lamp.

The Direct vision Telescope on the other hand can only be used through bronchoscopes with special distal illumination projecting a beam of light forward, as in the Negus bronchoscopes.

- 827.** 90° Telescope, Cowper Tamplin's, for inspection of subglottic region of trachea, complete with two spare lamps, switch and cable ... each



- 828.** Spring Clip Adapter with shield, for use of above, with Negus' Laryngoscope No. 733 ... each

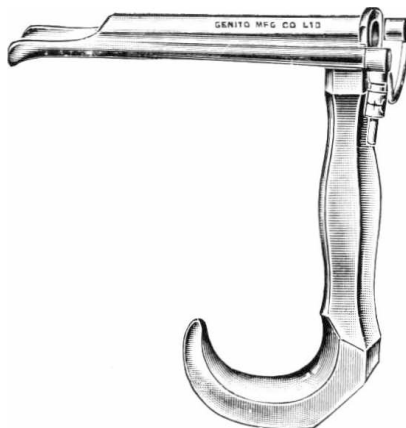


- 829.** Retrograde Telescope, for inspection of upper lobe bronchii, 48 cm. long, with 2 spare lamps, switch and cable ... each

- 829a.** Rightangle Telescope, for inspection of upper lobe bronchii, 48 cm. long, with 2 spare lamps, switch and cable ... each



- 830.** Direct vision Telescope, 44 cm. long, for adult size bronchoscope ,,
- 831.** Spring Clip Adapter, with shield ... ,,
- 832.** Direct vision Telescope, 30 cm. long, for child size bronchoscope ,,
- 833.** Spring Clip Adapter, with shield ... ,,



834. Infant Laryngoscope, Dr. Gunn's modification of Negus' 9 cm. long, bore as standard Child model, with twin lamp carrier, and 2 lamps ... each

834a. Extra Lamps „

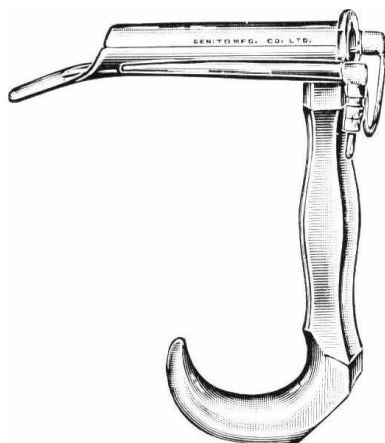
835. Child Laryngoscope, Dr. Gunn's modification of Negus', 11½ cm. long, bore as standard Adult model, with twin lamp carrier, and 2 lamps, each

835a. Extra Lamps „

These instruments are specially designed for examination and treatment of laryngeal diphtheria in children by direct laryngoscopy.



836. Suction Tubes, Willard Parker Hospital model, nickel plated, three sizes, small, medium and large, for aspiration of membranes in the treatment of diphtheria by direct laryngoscopy (Laryngoscopes Nos. 834, 835, 837, 838) each



837. Child Laryngoscope, Dr. Joe's modification of Negus', with twin lamp carrier and 2 lamps each

837a. Extra Lamps „

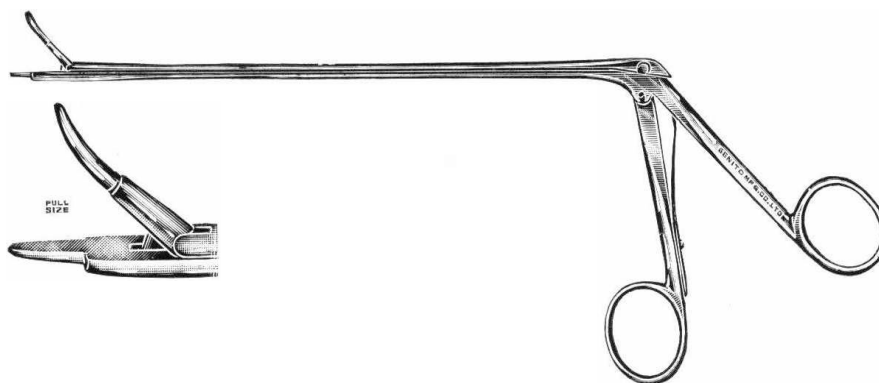
838. Infant Laryngoscope, Dr. Joe's modification of Negus', with twin lamp carrier and 2 lamps each

838a. Extra Lamps „

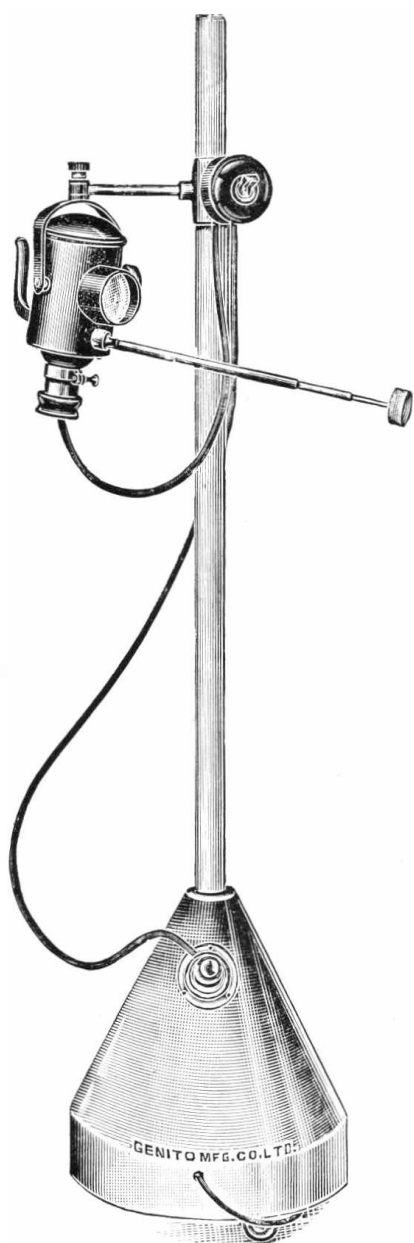
These instruments are specially designed for examination and treatment of diphtheria in children by direct laryngoscopy.



839. Intubation Tubes, vulcanite, various sizes each



840. Intubation Forceps, Dr. Joe's, stainless steel, for introducing above, through Laryngoscope (Nos. 837, 838) each



841. Examination Lamp, Bedford Russell's,
on heavy cast iron base, 14" dia-
meter \times 14" high, overall height
5' 8", on four ball-bearing castors.
For Direct current only ... each

842. For Alternating current only ,,
Packing, carriage, and insurance at cost.

(Please state voltage and periodicity of current
when ordering.)

The Bedford Russell Examination Lamps are fitted
with 100 candlepower "Pointolite" Lamps giving a
powerful concentrated beam. The lamp-holder is fixed to
a ball and socket joint at the bottom of the lantern for
the purpose of correct focusing.

The lantern is suspended to a transverse bracket,
and the swivel joints are fitted with adjustable friction
clutches, which hold the lantern in any desired position.

To the front is a light telescopic arm fitted with a
detachable sterilisable rubber knob, and the Surgeon can
by this means direct the beam himself.

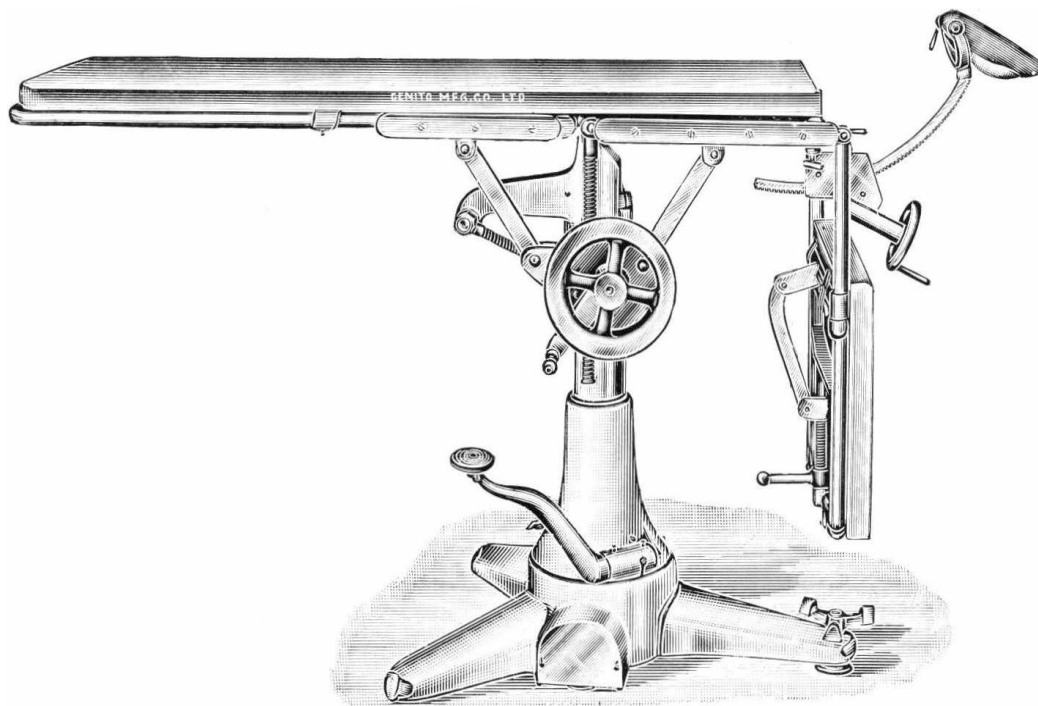
SPECIFICATION.

Standard.— $1\frac{1}{4}$ " steel tube in conical cast iron base, 14" diameter \times 14" high,
over-all height 5' 8", mounted on four ball-bearing castors.

Pointolite resistance fitted into base, cooling through standard tube.

Pointolite Lamp.—100 candlepower, in black finished brass lantern, connected to
standard with friction plates for horizontal and vertical movement. Starting switch fixed
to bracket clamp near lantern.

Lantern.—Fitted with triple expansion control Arm, 26" long when fully extended,
and Insulated Handle at back. Ball and socket focusing movement, and rectilinear condenser.



- 1065.** Operating Table for Oto-Rhinological operations and Per Oral Endoscopy, fitted with Head Rest No. 763, and sponge rubber cushion $1\frac{1}{2}$ " thick... .. each
Ditto, with Universal Head Rest No. 910 „

Packing, carriage and insurance at cost.

The table is mounted on solid tripod with hydraulic lift, by means of which it can be raised from 29 to 41 inches. The tilting of the table top in either direction is controlled by self-locking screw mechanism.

Foot-rest for above each

Instrument Holder for above „

Detailed Specification on application.

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